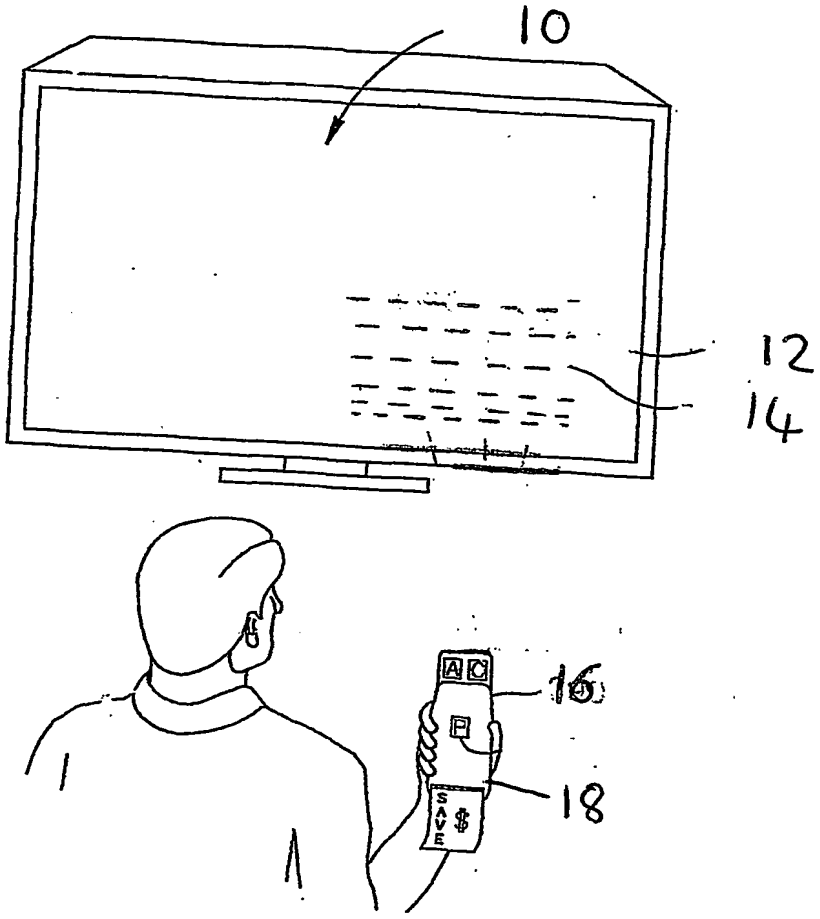
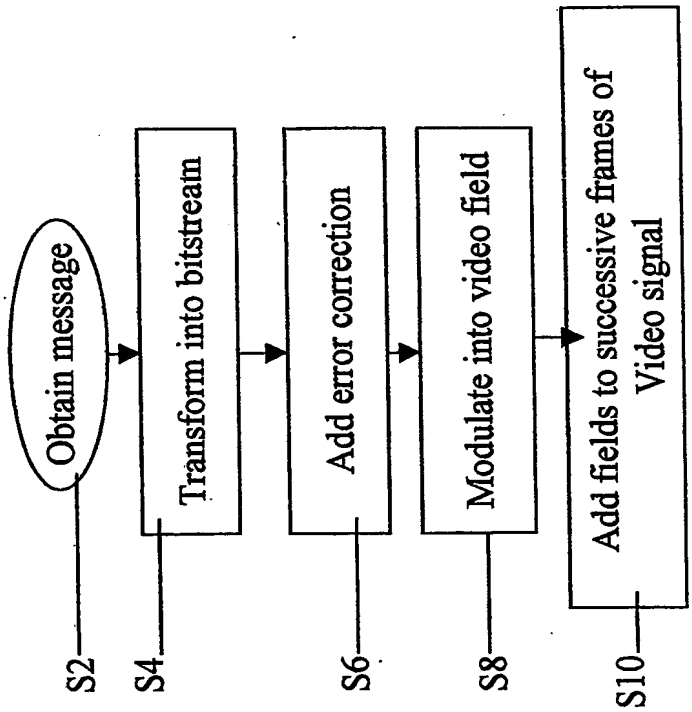


FIG.1

10/524276

Fig. 2



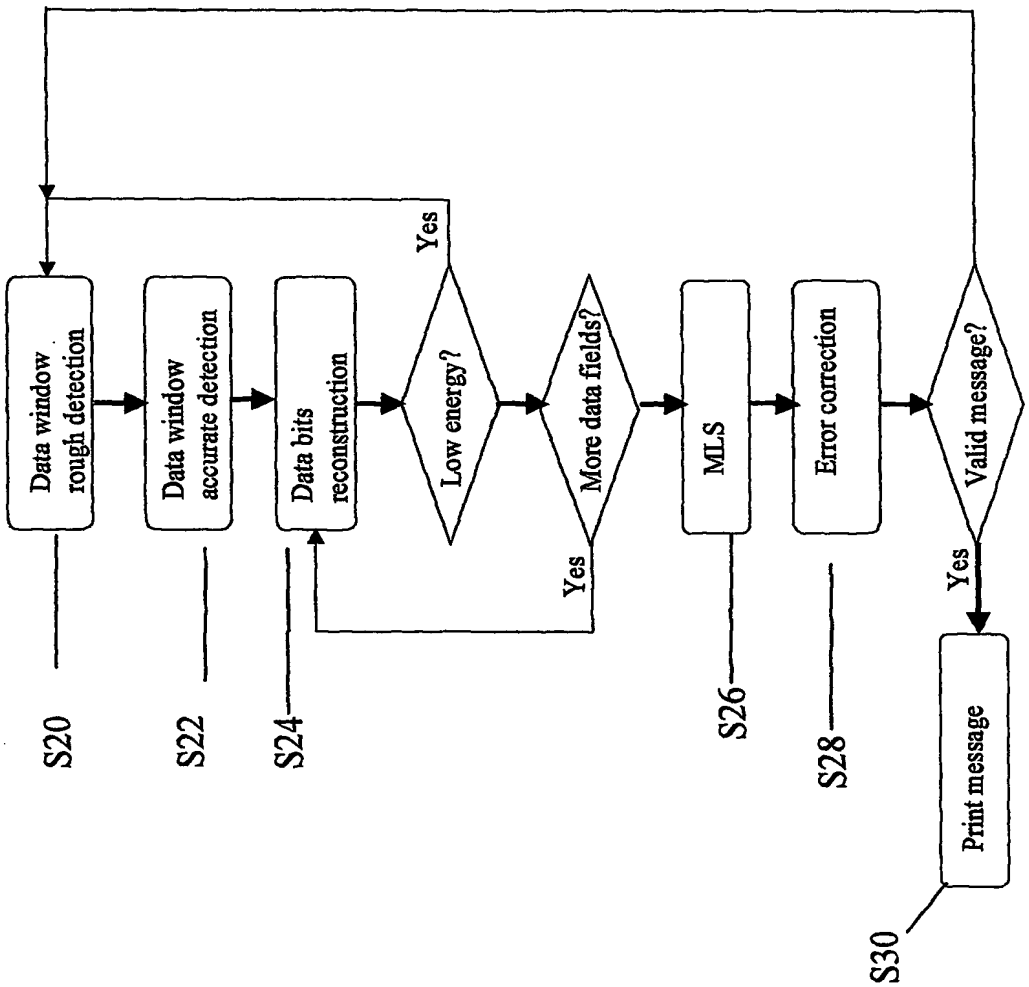

Data window rough detection
Data window accurate detection
Data bits reconstruction
Low energy?
More data fields?
MLS
Error correction
Valid message?
Print message
Yes
Yes
Yes
S20
S22
S24
S26
S28
S30

Fig. 3

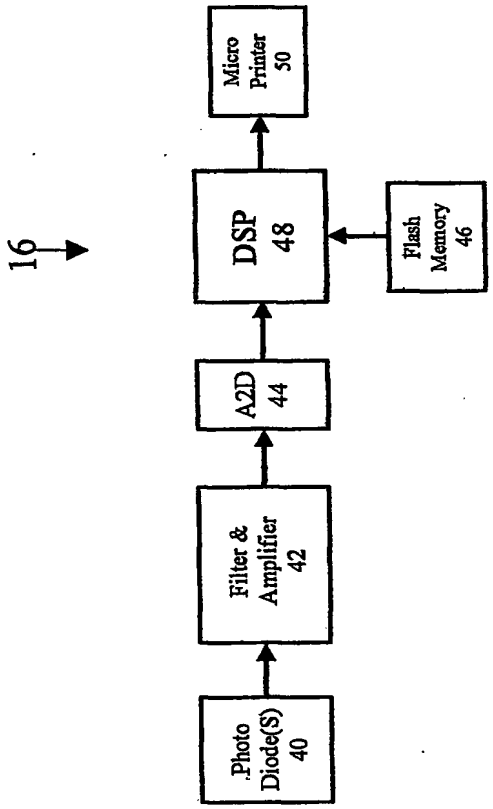

16
Photo Diode(S) 40
Filter & Amplifier 42
A2D 44
DSP 48
Flash Memory 46
Micro Printer 50

Fig. 4

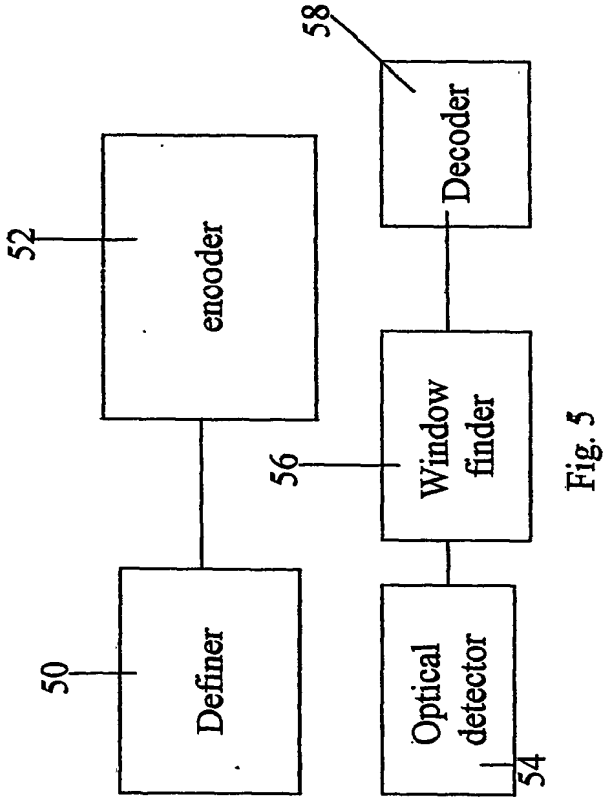

58
Decoder
52
enooder
Window finder
56
Definer
50
Optical detector
54

Fig. 5